FROL'KIS, Vladimir Veniaminovich, doktor med. nauk; KUL'CHITSKIY, Konstantin Ivanovich, dots.; MIL'KO, Vasiliy Ivanovich, dots.; KUZ'MINSKAYA, Undina Anatol'yevna, kand. med. nauk; FEDOROV, I.I., red.; RAYZ, A.L., tekhn. red.; CHUCHUPAK, V.D., tekhn. red.

[Coronary blood circulation and experimental myocardial infarct] Koronarnoe krovoobrashchenie i eksperimental'nyi infarkt miokarda. Kiev, Gosmedizdat USSR, 1962. 254 p.
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(HEART--INFARCTION) (CORONARY VESSELS)

KUZ MINSKAYA, U.A. [Kuz myns ka, U.A.]

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1. Biochemistry Department of Kiev Medical Institute.
(CORONARY HEART DISEASE)

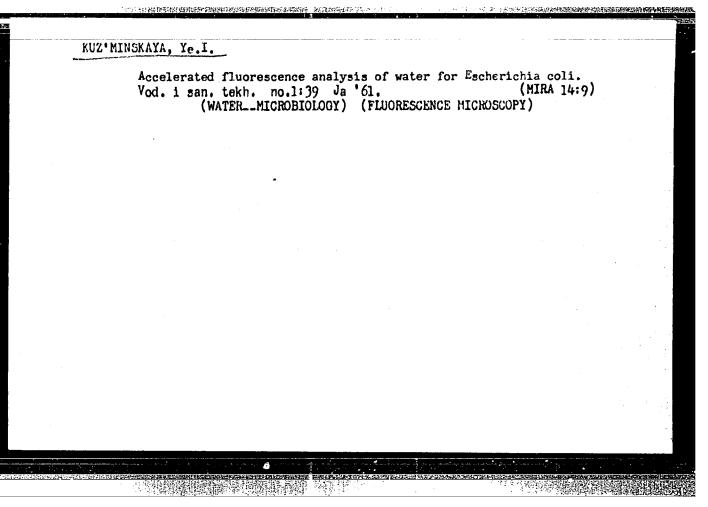
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KUZIMINSKAYA, U.A.

Carbohydrate and phosphorus metabolism within the heart in pituitrin coronary insufficiency. Trudy Inst. klin. i eksper. kard. AN Gruz. SSR 8:407-410 163. (MIRA 17:7)

1. Meditsinskiy institut, Kiyev.

DESCRIPTION OF THE PROPERTY OF



KUZMINSKI, B.

"Karol Bohdanowicz as an Outstanding Geologist and Polish Traveler." p. 50 (PROBLEMY, Vol. 10, no.1, Jan., 1954, Warszawa, Poland)

SO: Monthly Lists of East European Accessions, LC, Vol. 3, no.5, May 1954/Uncl.

POLAND/General Division, History, Classics, Personnel A-2

Abs Jour: Ref Zhur-Biologiia, No 5, 1958, 18857

Author : Kuzminski Boleslaw

Inst : -

Title : Benedykt Dybowski-The Researcher of Baikal

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Orig Pub: Problemy, 1957, 13, No 3, 211-214

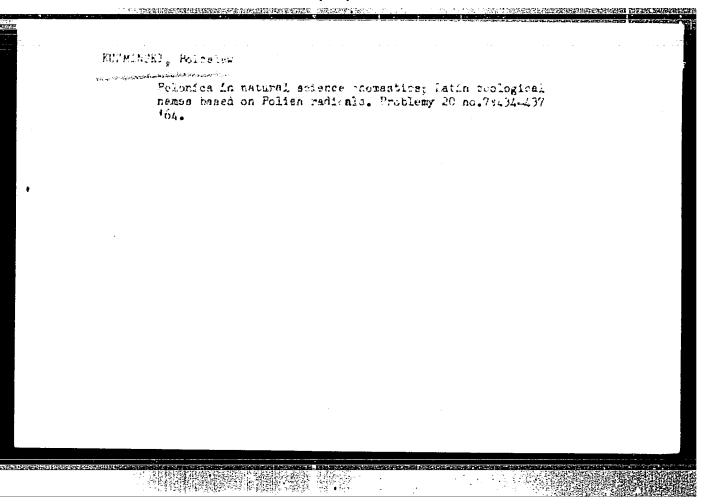
Abstract: A Zoologist, See Ref Zhur Biologiia, 1955, 20537

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THE RESERVE OF THE PROPERTY OF THE PERSON OF

KUZMINSKI, Boleslaw

Polonica in the onomasticon of natural science: Latin botanical names with a Polish root. Problemy 20 no. 4: 241-242 164.



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CIA-RDP86-00513R000928110005-5

COUNTRY : POLAND iì CATEGORY : Chemical Technology. Chemical Products and Their Applications, Lacquers, Paints, Coatings ABS. JOUR. : AZKhim., no. 19, 1950, 50, 69841 5100 B.7 : Eurminski, M.; Szymkiewicz, A. : Experimental Application in the Industry of Time Protective Coatings, Made of Synthetic Substances, Applied as Pseudo-Liquified Films * ORIG. PUB.: Przem. fermentacyjny, 1958, 2, No. 3, 93-98 ABSTRACT : Investigations were conducted in the employment of polyamides, polyethylene, polymethylmetaerylate and polyvinylchloride as protective coatings (C). C were applied in the form of pseudo-liquified films and by combustion soraying. C offer high anti-corrosion protection at the corresponding minimum thicknesses--7.5mm for polyamides, 0.8-2.0mm for polyethylene and polyvinylchloride. -- Z. Fabinskiy. *and by Spraying. JakD: 1/1

KUZMINSKI OCCUPATE t Polined 0.1.2557 AUS. JOUR. : REKhall., No. 16 1959, No. 57440 : Blonska, A. and Kuzminski, A. adi 10A $L^{1/N}$. : Nor given 111 : The Protection of Steel Atructures from Corrosion in Industrial areas by the Use of Sprayed Aluminum Coatines 0279. PUD. : Praeglad Spawsin, 10, No 1, 15-19 (1921) ULSCPARCE -: Surayed aluminum coatings (Ad) on steel structures afters the base metal good protection against correspon as a result of the fact that oluminum is anodic relative to steel. Inc. aluminum oxides tresent at the surface of the Al do not dissolve reamily in water and in acids. The continue consist of againguations of atomized metal cartilles held together by ednerive and conesive forces. Lotwinasterding Tream consideerable porosity, the AC are resistent insumuch. 34.16: 172

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COUNTRY CAPEGORY

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ORIG. PUB. :

ABCTRACT

: as the pores are blocked by corresion products. Proper preparation of the steel surface is essential in assuring good conding of the AC to the base metal. The products of the corresion of the AC adhere tightly to the coating and do not dissolve in acid media. Methods used in applying the AC are described, and enurgment is recommended for the process.

V. Kashcheyev

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corrosive Szymkiew Ind. Meck polyamide (vinyl chi and water Hardness, porosity, a	distance of plastic sprayed media. Miccystaw Kuicz (Inst. Precision Micchanis. 7, No. 26, 82-8 (1969).—C., polyethylene, poly(methyloride) flame-sprayed coating solu. of some acids, salts, an abrasion, and thermal resist	minski and Anna cs, Warsaw). Prace orrosion resistance of acrylate), and poly- gs on steel in water id alkalies was tested. ance, steel adherence, e investigated. I. Dobrucka	5-0-9 (NB) -msc(ju)	
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KUZMINSKA, Alina; KUZMINSKI, Roman

Use of spasmodex in labor. Pol. tyg. lek. 20 no.14:519-521 5 Ap 165.

1. Z I Kliniki Poloznictwa i Chorob Kobiecych AM w Gdansku (Kierowniki prof. dr. med. Stefan Metler).

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Study of forces acting on the peat mass between a pair of rollers and some considerations on the working surface of roller-type forming machines. Trudy Inst.torf.AM BSSR 4:150-156 '55.

(Peat machinery)

(Peat machinery)

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PICHUGIN, A.A., dotsent, kend.tekhn.nauk; BOCHAROY, Ye.V., inzh.. Prinimali uchastiye: KUZ'MINSKIY, A.G., inzh.; VORONKINA, W.A., inzh.; FEDOROY, A.A., inzh.; BELOUSOV, M.A., inzh.ekonomist; PROSYIRMIN, G.V., inzh.; KNIGINA, G.I., dotsent, kand.tekhn.nauk; LESNIKOV, V.V., dotsent, kand.tekhn.nauk; SIDOROV, A.K., dotsent, kand. arkhitektury; KARTASHOV, A.A., arkhitektor; BARITSKIY, F.F., dotsent, kand.tekhn.nauk; KULISHOV, D.A., prof.; ZDESENKO, G.M., kand.tekhn.nauk; ALEKSANDNEHKO, A.I., dotsent, kand.tekhn.nauk; STREL'NIKOV, G.Ye., kand.tekhn.nauk; YANNYEV, V.A., assistent; CHEREPKO, P.A., dotsent. SUSHINSKIKH, A.F., inzh., retsenzent; MEN'SHIKOV, P.N., red.; SUBBOTINA, G.M., tekhn.red.

[Manual for rural builders] Spravochnik proizvoditelia rabot sel'skokhoziaistvennogo stroitel'stva. Novosibirsk, Novosibirskoe knizhnoe izd-vo. Vol.1. 1959. 673 p. Vol.2. 1959. 677-1191 p. (MIRA 13:2)

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Novosibirsk, Novosibirskoe knizhnoe izd-vo, 1961. 713 p.

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Mashinostroenie no.6:94-96 N-D '63. (MIRA 16:12)

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Mathematical method for calculating optimum charge. Mashinostroenie no.3:48-50 My-Je '64.

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KUZMINSKIY, A.P., gvardii starshiy leytenant; KOSHELEV, V.G., gvardii starshiy leytenant; YARTSEV, P.M., gvardii starshiy leytenant.

We learn the art of flying from our commanding officers. Vest.

Vozd. F1. 41 no.12:32-35 D '58. (MIRA 11:12)

(Flight training)

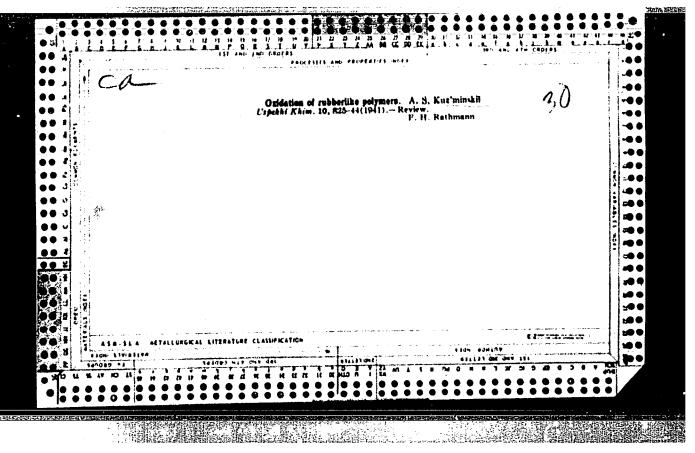
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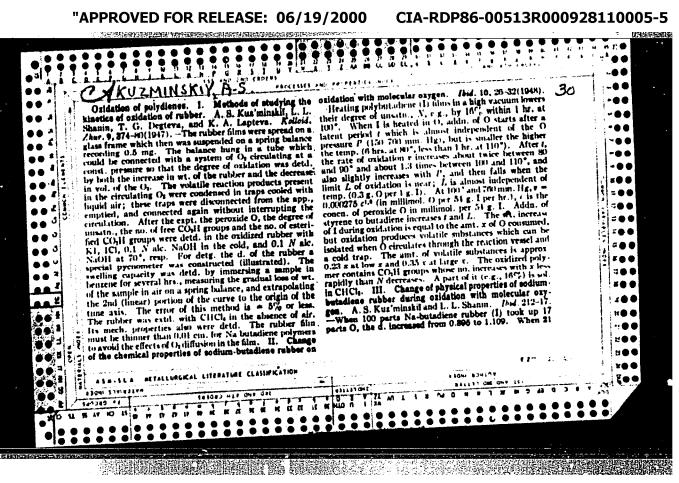
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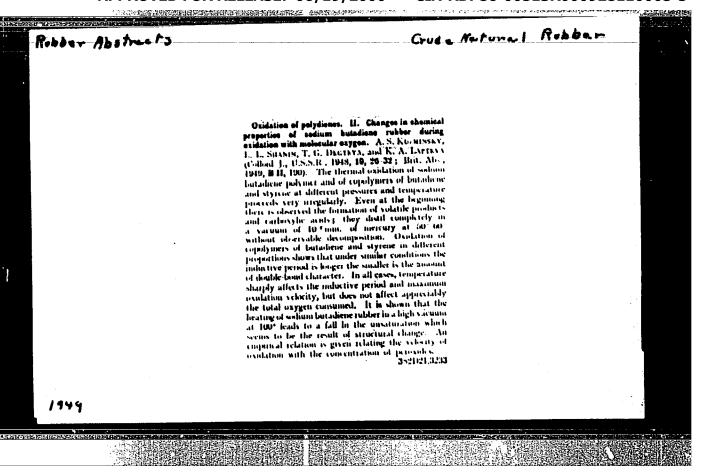
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(LISTERIA, infections,
epidemic in Russia (Rus))

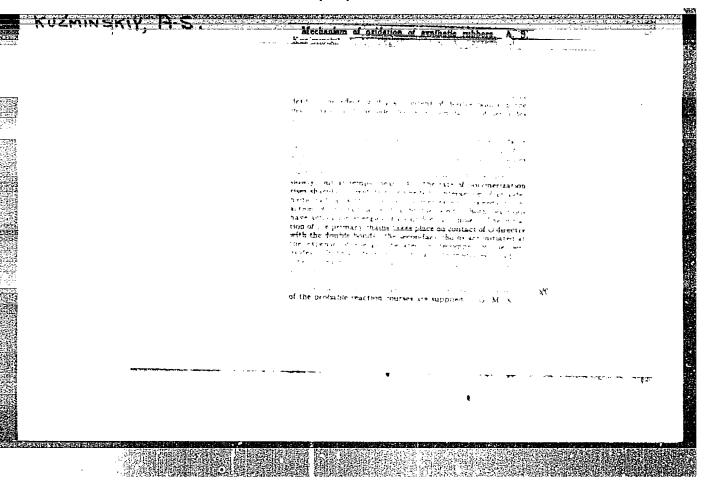
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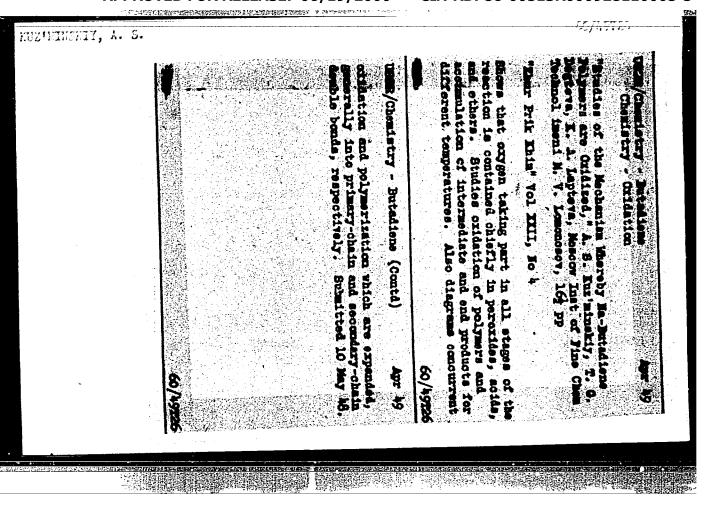


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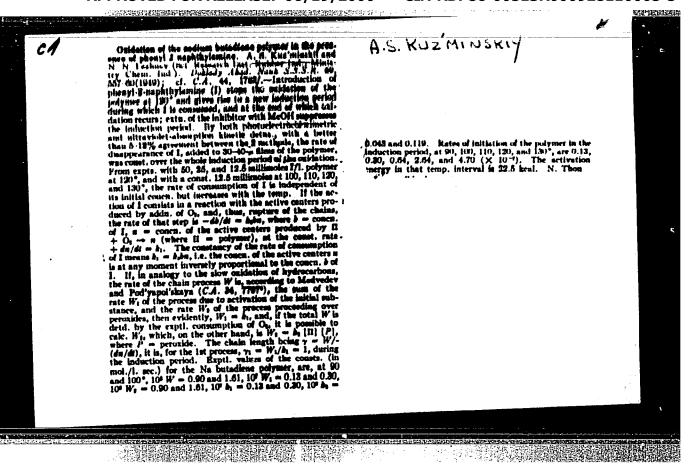
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Mechanism of the addition of medium functions polymer. A. S. Kus'minskill, T. (I). Degiven, and R. A. Lapters (Moscow' 1966; Files Chem. 128, 262-36(1991); Filaded. Kim. (I Applied Chem.) 23, 262-36(1991); Filaded. Kim. (I Applied Chem.) 24, 262-

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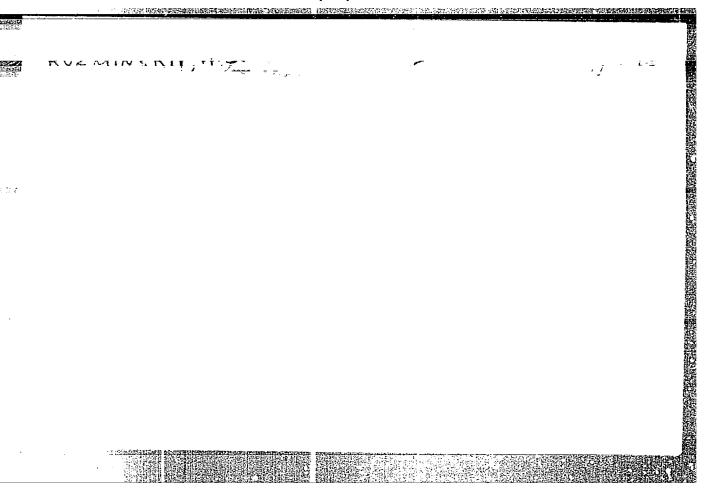
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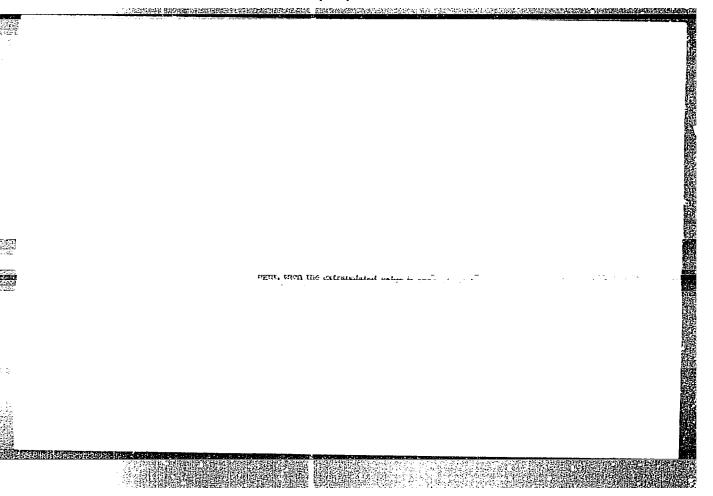
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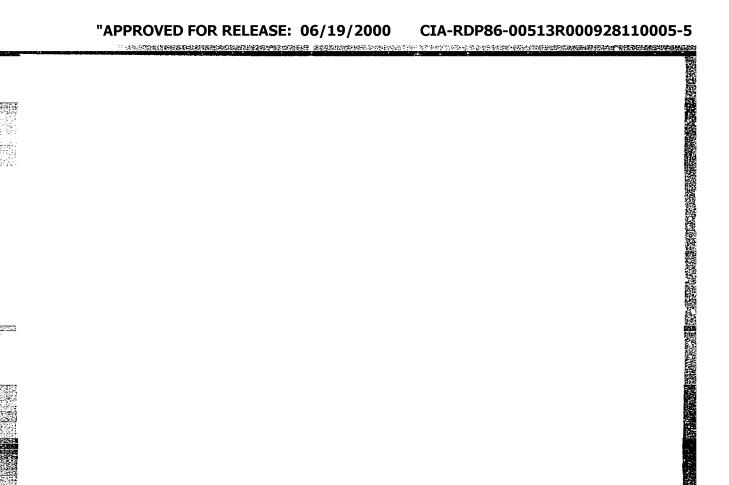
Dissertation: "Investigation of the Mechanism of Thermal Oxidation of Rubber." 25/18/50

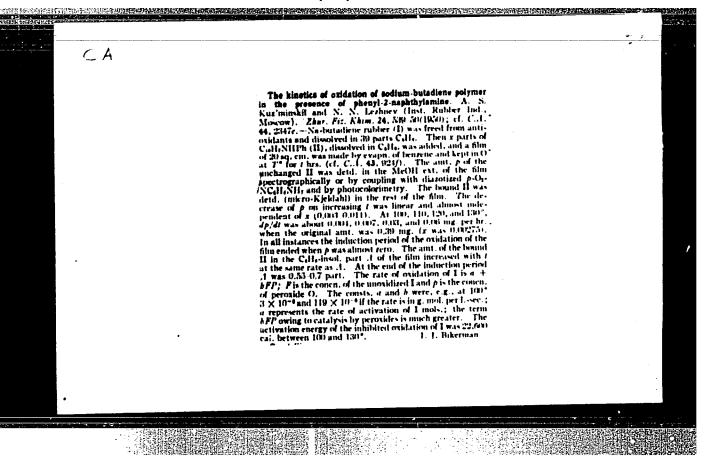
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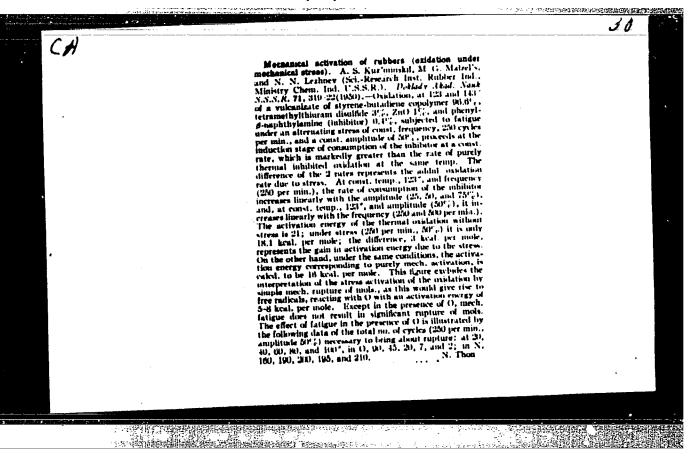


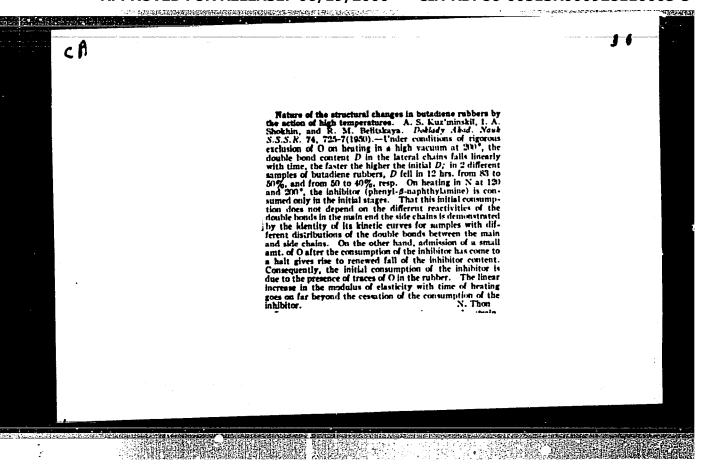






Structure of rubbers and their reactivity. A. B. Kur'muskil and N. N. Lerhnev. Dobledy Abed. Near N.N.N. 79, 1021-4(1050).—By detra, of the rates of autovicition in (b) of a gutta-period hydrocarbon ber (III), a lotatione with the structure of the structure of





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Effect of sulfur on the axidation of sedium-butadiene rabber. A. S. Kua'minskii, T. G. Degteva, K. A. Lapteva, and N. N. Leahnev. Debiedy Ahed. New S. S. J. R. 18, 223-5(1950).—Free, i.e., unbound, S lahibits oxidation, with the inhibition increasing with the S content (0.09-0.51%). If S is introduced during autocatalysis, the latter 0.51%). If S is introduced during autocatalysis, the latter of the subscription of O₁ is due to interaction of S deceleration of the absorption of O₁ is due to interaction of S with the intermediate oxidation products of the rubber; in this process, free S is progressively bound, and, by extanalysis, its amt. is shown to decrease linearly with time, analysis, its amt. is shown to decrease linearly with time, inc. at a const. rate. Thus, at 90°, the free S decreased from an initial 0.3% (0.084 M per l.) to zero in 9 hrs. when the amt. of O₂ absorbed was 140 millimoles per mole cubber. In the presence of S, the amt. of volatile products (HCO₄H) + HCHO) is reduced, with the ratio HCO₄H/HCHO remaining unchanged. Further, in the presence of S the making unchanged. Further, in the presence of S the making unchanged. Further, in the presence of S the initial unsain.) even in a N₁ atm.; whereas without S is seen, there is no structure formation (i.e. decrease of the initial unsain.) even in a N₁ atm.; whereas without S is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, there is no structure formation; at 90°, with S, is seen, the presence of S, the

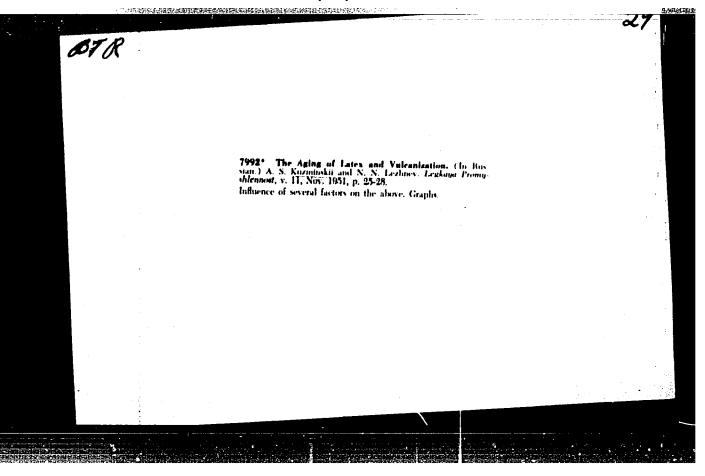
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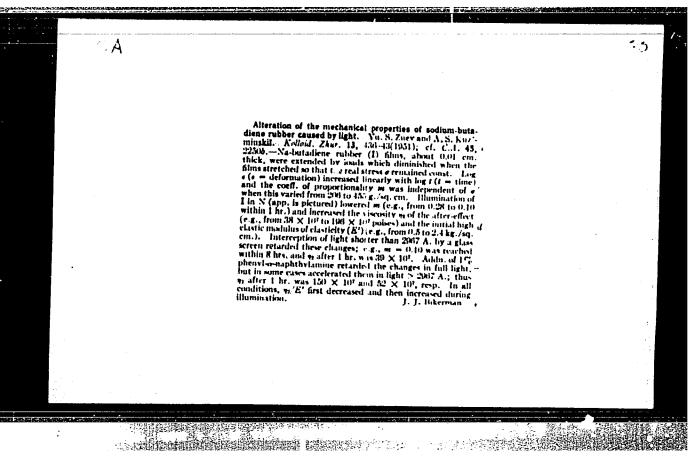
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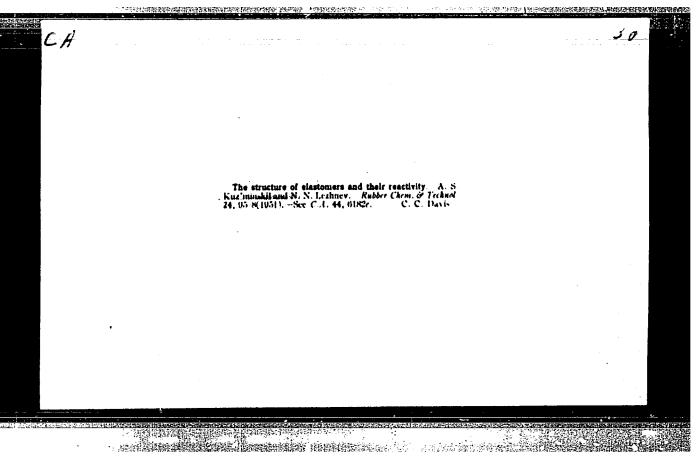
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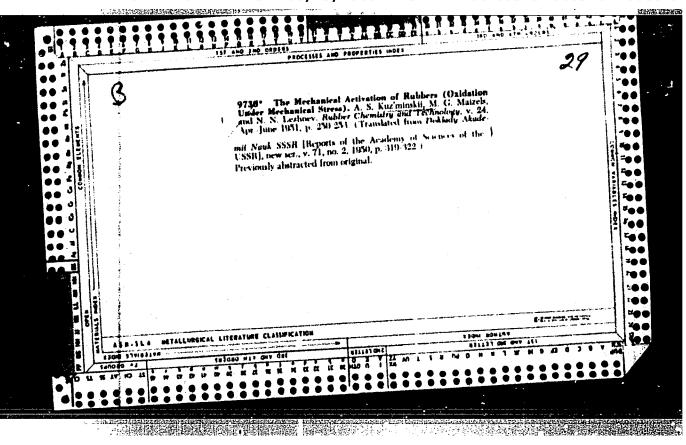
I greater than for S. The rate equation of the autocatalytic parket than for S. The rate equation of the autocatalytic axidation of rubber (C.A. 44, 9181f), w = hs[11][f], where the const. of the interaction between the radicals and Os, in the denominator, the sum of the rupture probabilities on the rate const. of the interaction between the radicals and Os, in the denominator, the sum of the rupture probabilities of the rate of the confirm of t

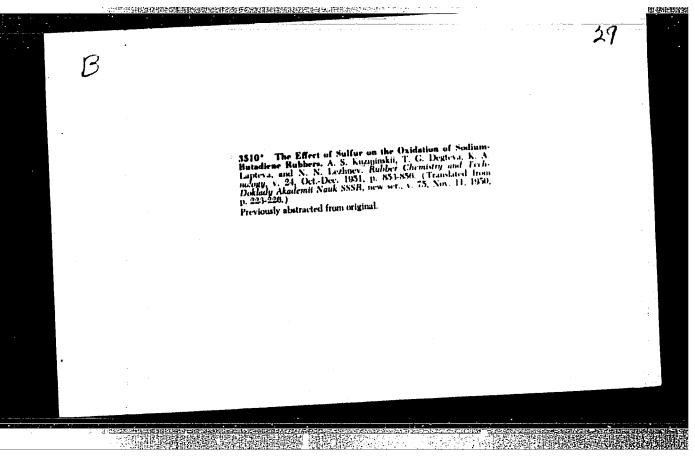
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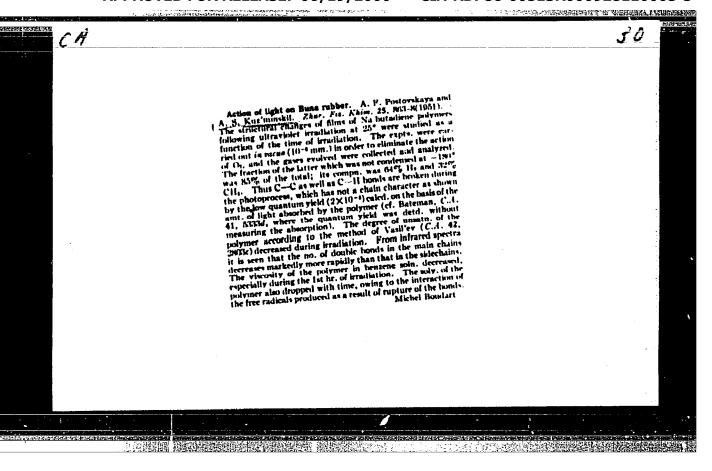






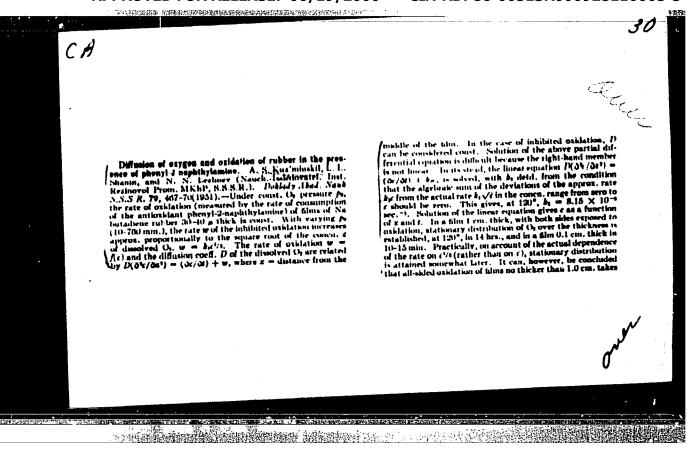


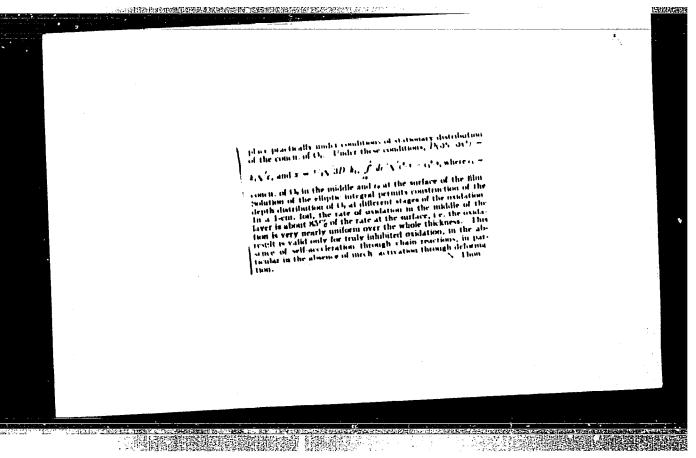


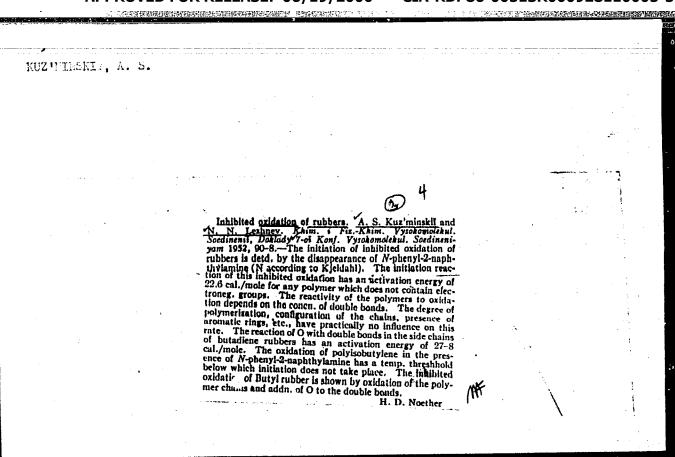


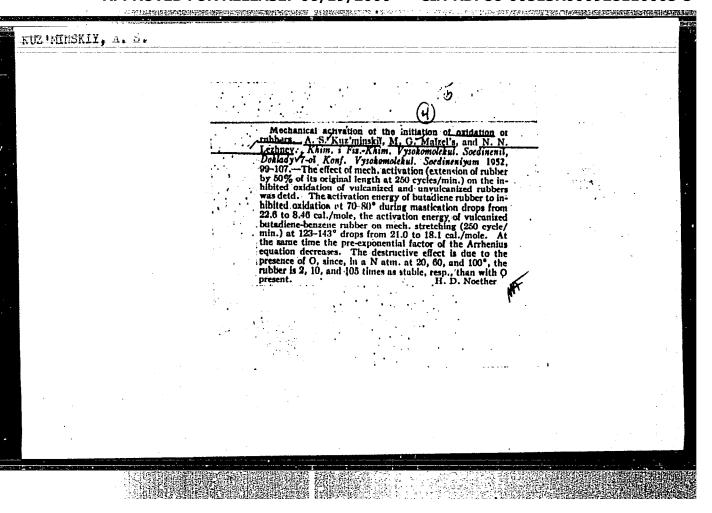
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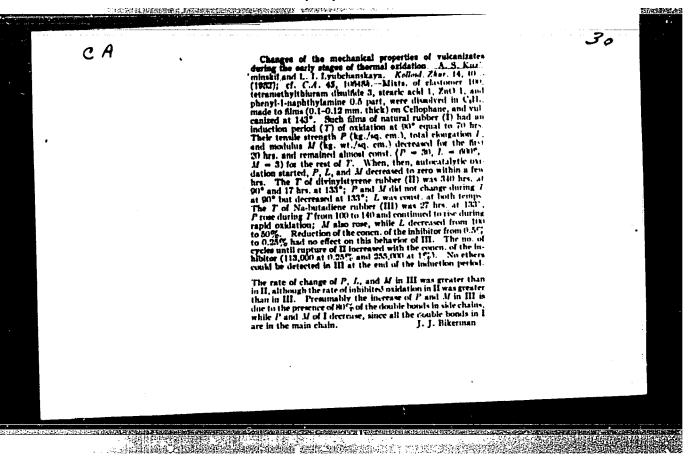
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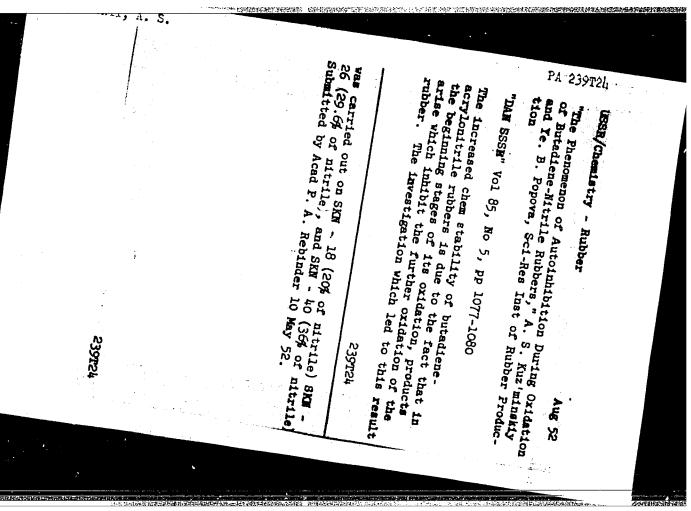


232T17 KUZITINSKIY, A. Š. simultaneously. Both processes proceed up to a dation of polyisobutene and of butyl rubber were decline in the mol wt of polyisobutene take place shown that the consumption of inhibitor and the studied in the temp range of 110-130°. The kinetics of inhibited and autocatalytic oxi-Rubber Production Ruz'minskiy, N. G. Khitrova, Sci Research Inst of "Zhur Obshch Khim" Vol 22, No 9, pp 1506-1516 "Kinetics of the Oxidation of Polyisobutene," A. S. USER/Chemistry - Synthetic Rubber probable scheme for the oxidation mechanism of polyisobutene is given. On heating in ation rate is detd by 2 consts (at 130° K. = 1.06 X 10-7 moles/1/sec; K₁ = 0.14 X 10-7 moles, 1/sec) Free development of the oxidation prois based on fission of C - C bonds, as well as oxidation of double bonds. Hence, the initiearly stages of the reaction. The high-mol fractions are more reactive than the low. Initiation of oxidation of polyisobutene is due certain limit (depending on the temp) in the high-mol fraction. butene in the early stages of oxidation. A cess leads to thorough destruction of polyisoto thermal decompn of the mol chain forming its polyisobutene and butyl rubber form more highly high vacuum (with a low conen of oxygen), both 3 developed structures. Initiation in butyl rubber It was 58

Matter of carbon blocks on the develops ment of exidation processes, to raw and vulcaneed published. M. G. KIUTEDLY, and S. L. Dassa. Doblady Akad Nauk S. S. R., 1002, 82, 131-3; Rub. Chem. Technol., 1953, 26, 868-61. Ct. this journal, 1962, abs. 3429. A translation of this paper now appears. 42(Ct.). 10-11-54 MEE	UZMINSKLY A.S.		
VN. G. KHITROYA, and 25. I. BASS. Doklady Akid Nauk S.S.S.R., 1052, 82, 131-3; Rubb. Chem. Technol., 1953, 26, 858-61. Cf. this journal, 1952, abs. 3423. A translation of this paper now appears. 421C0-R			
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	nd sulfur and curves each were consumed Presented	vulcanization accelerators have t on the oxidation processes of processes in turn have a great mech properties of the rubber.	No 1, pp		bber, Vulcaniza- tion Accelerators
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KUZIMINSKIY, A. S., PASHCHAMSKAYA, R. YA.

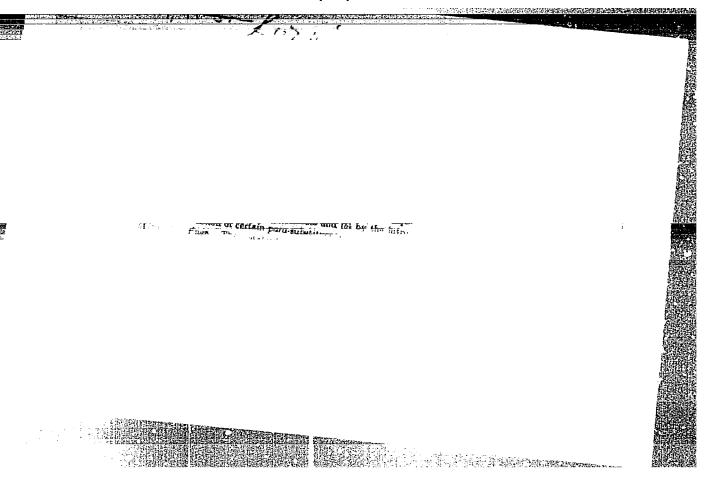
Polymers and Polymerization

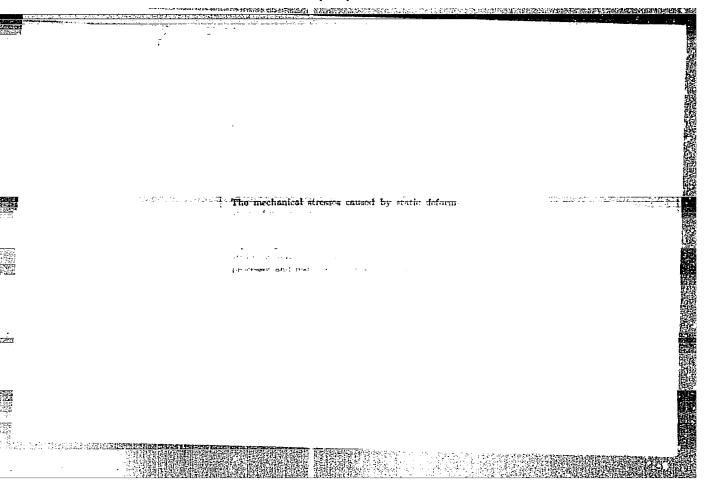
Oxidation of a polymer having a polar substitute at the double bond. Dokl. AN SSSR 85

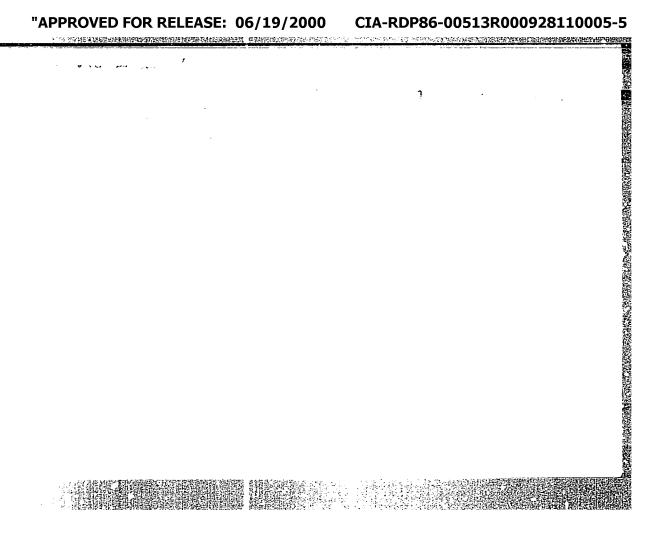
Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

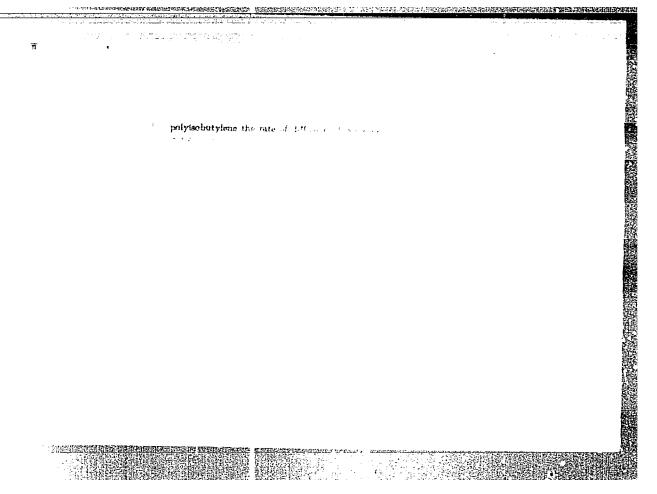
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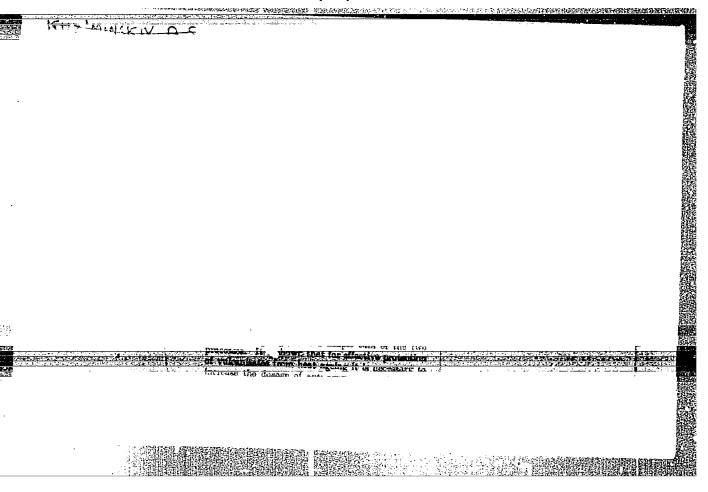
The Connection Between Oxidation and Change in Struce. A. S. Kuz'minskiy, Sci Res Inst of Rubber Ind, Min "Dok Ak Mauk SSSR" Vol 86, No 6, pp 1147-1150 A theoretical curve vas calcd for the change in elasticity during oxidation at 100 of heat-vulcanized thalamine. Expti data fit the curve satisfactorily and thus a connection is established between the chem and the change in mech properties during the change in elasticity during oxidation of sestablished between the chem and the change in mech properties during the and the change in mech properties during the Rebinder 15 Aug 52. Presented by Acad P. A. 234733 Process based on the decompn of active peroxide oxidation of rubber. Presented by Acad P. A.
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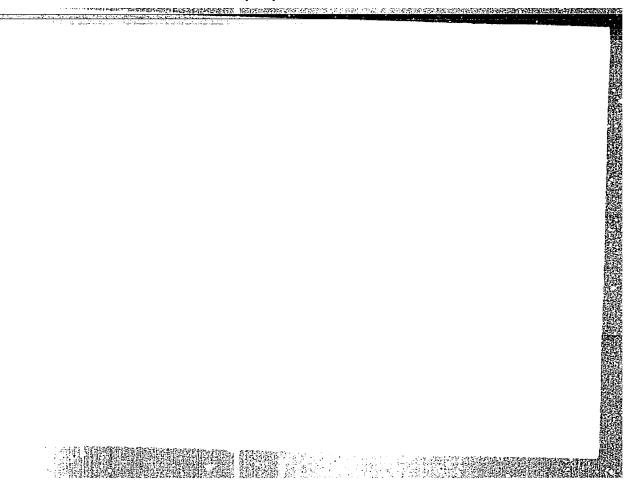




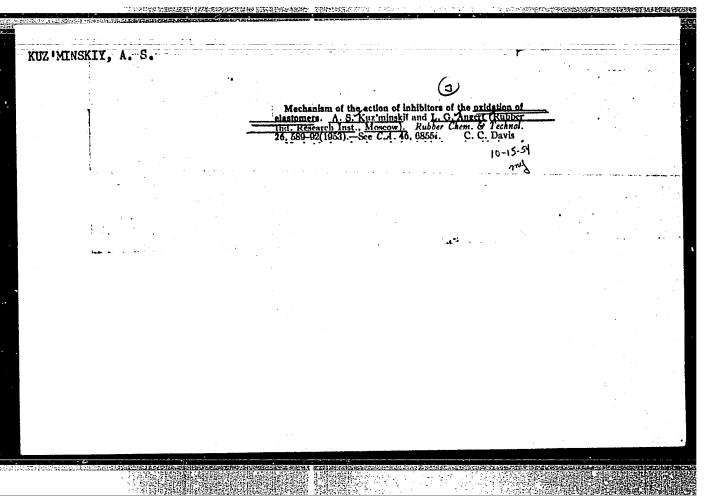








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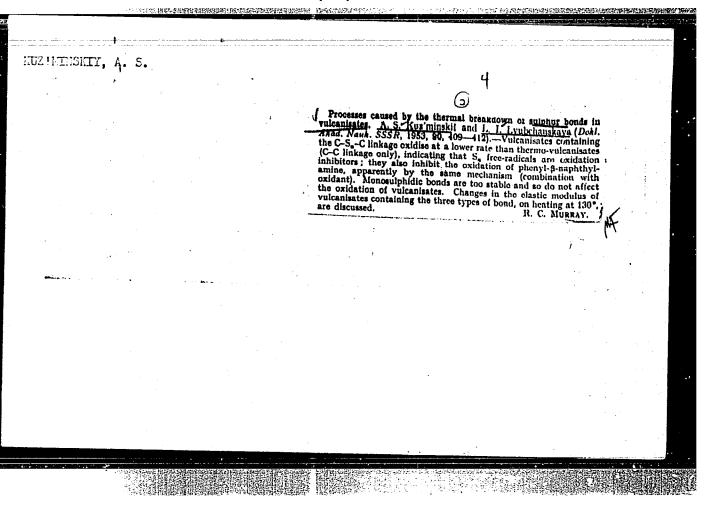
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•		B. T. R. Vol. 3 No. 4 Apr. 1954 Rubber and Elastomers	5729 Effect of Carbon Black on Oxidation Processes in Raw and Vule Carminskii. L. I. Lyubchanskaya, N. Bass, Riubber Chemistry and Teclino 1953, p. 858-861. (Translated from D Soyuta Sovetskikh Sotsialisticheskikh I 1952, p. 131-133.	the Development of anged Rubbers, A. S. Khityova, and S. I. ogy, v. 28, Oct. Dec. oklady Academii Nauk epublik, v. 85, no. 1,
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kuz'minskiy, A. S.	War 53 USSR/Chemistry - Rubber "The Disintegration of Stretched Rubber Under the Influence of Ozone," Yu. S. Zuyev, A. S. Kuz'min-Influence of Ozone," Yu. S. Zuyev, A. S. Kuz'min-Influence of Ozone," Yu. S. Zuyev, A. S. Kuz'min-Influence of Ozone The The Parallel of The Theory ozone. Investigated surface cracking of rubber when stretched in an atm containing a small amount of stretched in an atm containing a small amount of stretched in an atm containing a small amount of stretched in an atm containing a small amount of stretched in an atm containing a small amount of SKN-26 (di-butadiene), SKN-26 (di-butadiene), SKN-26 (di-butadiene), skN-20 (divinglatyrene), SKN-26 (di-butadiene), skN-26 (di-butadiene), skN-26 (di-butadiene), contained but a result of the action of a freeses of stretching but no definite, directed stresses (stretching but no definite, directed stresses (stretching but no definite, of reaction between the rubber and the ozone, ical reaction of an inelastic surface film if solid formation of ozone into the depth of absence of diffusion of ozone into the depth of absence of diffusion of ozone into the depth of the sample.	

KUZ'MINSKIY, A.S.		
	The kinetics of the oxidation of rubber under the influence of light. A R Produvekaya and L S Kur minskil. Boblady Akad. Nank S.S.S.R. 90, 209-13 [1953].—The kinetics of the photookidation of rubbers (Na butadiene, kinetics of the photookidation of rubbers (Na butadiene, scheme described earlier (C.A. 46, 68783). The curves of the ant. of O absorbed with time show that the rate of the ant. of O absorbed with time show that the rate of with thermal oxidation. After 12 hrs., the decrease of the unsatu. was 55% for the photookidation and only 6-8% for unsatu. was 55% for the photookidation and only 6-8% for the thermal oxidation. An analysis of the solid phase of the the thermal oxidation. An analysis of the olid phase of the oxidized rubber showed that 10-18% of the O was specified in the form of acids and complex esters, 40% was in the volatile products, 20% in the form of peroxides. No carbonly groups or water were observed. J. Roytar Leach	XX
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KUZ'MINSKIY, A. S.

USSR/Chemistry - Vulcanizers

21 Jun 53

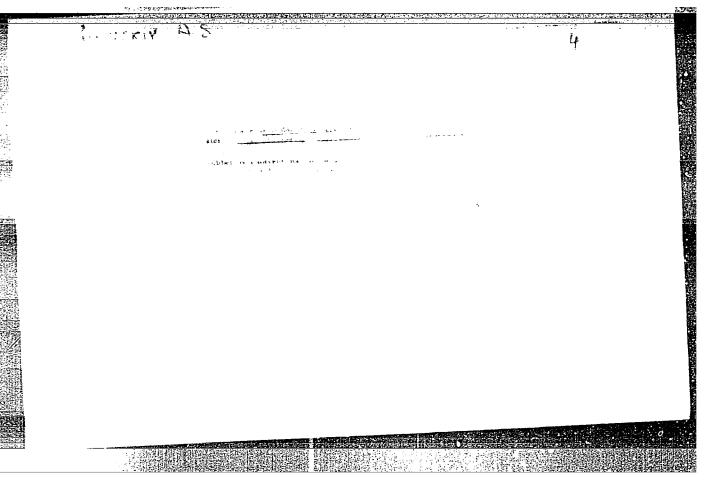
"Some Characteristics of the Light-Aging of Vulcanizers," Yu. S. Zuyev and A. S. Kuz'minskiy, Sci-Res Inst of the Rubber Industry

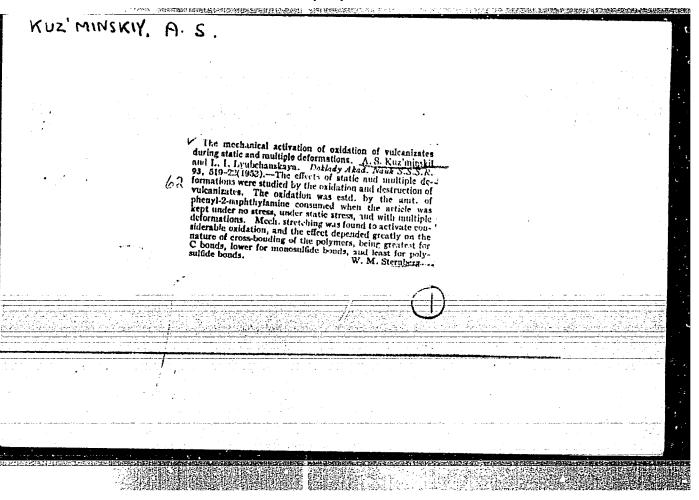
DAN SSSR, Vol 90, No 6, pp 1063-1066

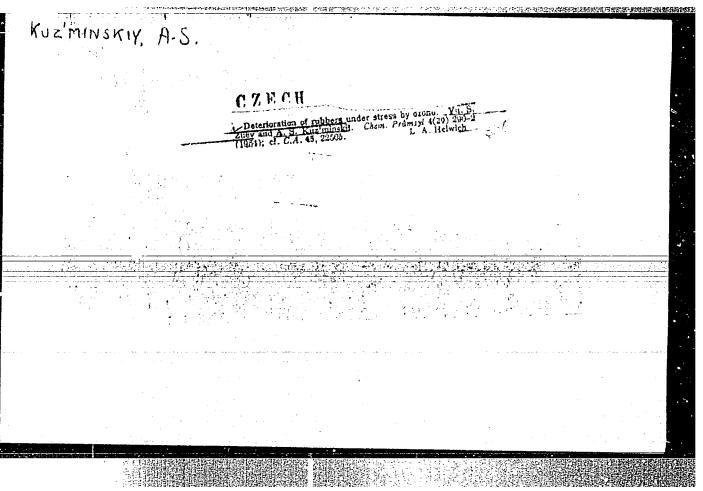
Studied the effect of phenyl-\$\beta\$-naphthylamine (I) on the light-aging of vulcanizers at different temps, different concs of (I), and with the introduction of light-filtering substances. At 25° (I) sensitizes the vulcanizer to light, but at 80° sensitization by I decreases. Raising the concn of I, results in the sensitizing action passing through a max.

26917

Addition of a light-filtering substance, especially carbon black, has a strong effect on the relationship between aging by light and by heat. Presented by Acad P. A. Rebinder 21 Apr 53.

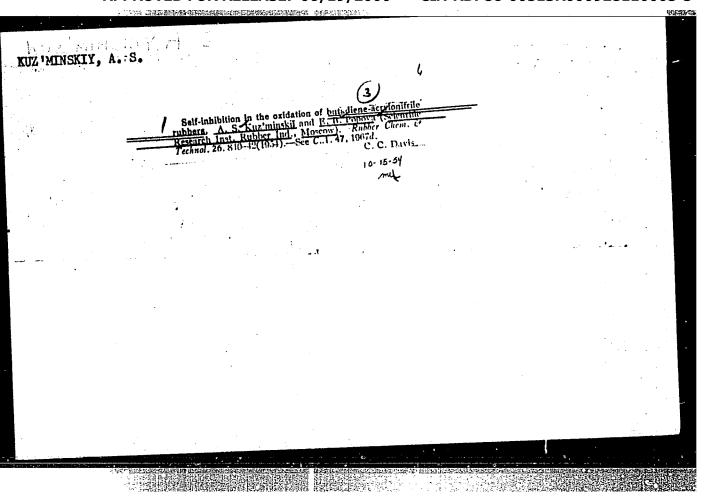


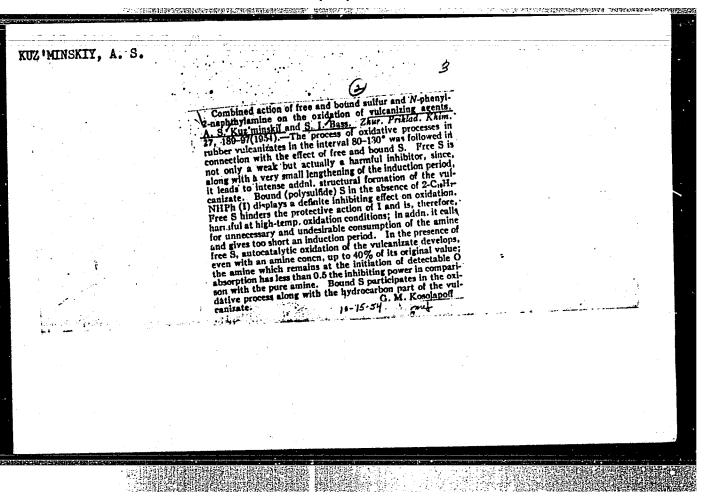




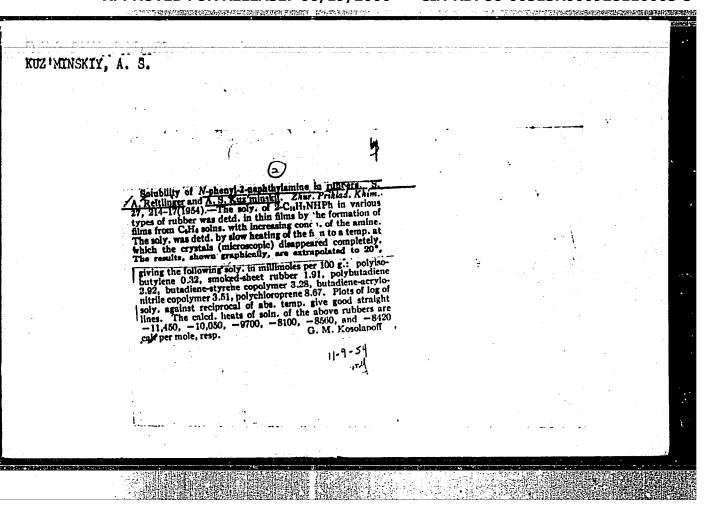
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Solubility of N. phenyl-2-naphthylamine in rubhers. S. A. Kuthings and A. S. Kuthings. 7. April. Coam. O. S. R. 27, 201-2(1134) Engl. translation).—See C.A. 49, 85771.	一个一个人,我们就是一个人的人,我们就是一个人的人的人,我们就是一个人的人的人的人。 ———————————————————————————————	A CARLO CON MENT FOR SEX AND AND AND SERVICE AND
	KUZ'MINSKIY, A. S.	
Solubility of Nobentyl-Learnhithytamine in rathers. S. A. Reithing and A. S. Kin mirekii. 7. April. Comm. U.S.S.R. 27, 201-2(1054)(Engl. translation). Sec C.4. 48, 85774.		
U.S.S.R. 27, 201-2(1954) Engl. translation),—See C.A. 43, 8571:	Solubility of Nobenyl-2-naphthylamine in rathers. S.	
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CIA-RDP86-00513R000928110005-5

KUZ 'MINSKIY, A. S.

USSR/Chemistry - Physical Chemistry

Çard

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Authors

Kuziminskiy, A. S. and Angert, L. G.

Title

: Rubber oxidation inhibitors (connection between the structure of the molecule and the inhibitor effectiveness).

Periodical

Dokl. AN SSSR, 96, Ed. 6, 1187 - 1189, June 1954

Abstract

The relation between the mobility of amine hydrogen and the structure of an aramine molecule was investigated for the purpose of establishing the connection between the structure of the molecule and the effectiveness of rubber oxidation inhibitors. Analysis of experimental data shows that the rate of structural changes of vulcanized rubber during inhibited oxidation depends directly upon the strength of the N-H bond in the aramine molecule. The effectiveness of the inhibitor depends upon the rate of separation of the hydrogen from the molecule of the inhibitor. Four references. Graphs.

Institution : Scient. - Research Institute of the Rubber Industry

Presented by: Academician P. A. Rebinder, March 17, 1954

KUL'MINSKIY, A.S.

USSR/Chemistry - Physical chemistry

Card

1/1 : Pub. 22 - 27/49

Authors

Kuz'minskiy, A. S.; Reytlinger, S. A.; and Shemastina, E. V.

Title

NO CONTRACTOR OF THE PARTY OF T Diffusion of antioxidants in rubber

Periodical

Dok. AN SSSR 98/4, 611-612, Oct. 1, 1954

Abstract

The diffusion of certain solid antioxidants (phenyl-beta-naphthylamine, dinaphthylamine, and dinaphthylphenylenediamine) dissolved in rubber. was investigated. Rubber, as a diffusion medium, is distinguished from liquid and solid crystalline bodies by the presence of certain characteristics due to the specificity of the thermal motion of the macromolecules. Since the investigated substances form colorless solutions in the rubber the position of the antioxidant concentration boundary was determined by the luminescence intensity of the filtered ultraviolet light. Three references: 1-USSR; 1-USA and 1-German (1942-1951). Graphs.

Institution : Scientific Research Institute of the Rubber Industry

Presented by : Academician P. A. Rebinder, May 22, 1954

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928110005-5

USSR/Chemistry - Vulcanization

Gard 1/1 Pub. 22 - 20/40

Authors : Kuziminsk

Title

Abstract

: Kuz'minskiy, A. S., and Chertkova, V. F.

: The role of oxygen during natural rubber vulcanization

Periodical : Dok. AN SSSR 99/2, 261-263, Nov 11, 1954

Data regarding the role of oxygen during the vulcanization of natural rubber are presented. The oxygen destruction of the rubber in conditions of press vulcanization are found to be of no great importance. The dissolved oxygen participates in the oxidation of the rubber, but the vulcanization process continues at a decreasing rate. An approximate calculation showed that the oxygen consumption per one hour of vulcanization is twenty times lower than during the vulcanization in the open air and the number of destructions is reduced considerably. The effect of anti-oxidants (secondary aromatic amines) on the properties of the rubber, formed during vulcanization, is explained.

Eight USSR references (1946-1954). Table; graphs.

Institution: Scientific Research Institute of the Rubber Industry

Presented by: Academician V. A. Kargin, June 10, 1954

Kuz'Hinsking, A.S.

USSR/Atomic and Molecular Physics - Physics of High Molecular Substances, D-9

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34514

Author: Kuz'minskiy, A. S.

Institution: None

Title: Present-Day Status of the Problem of Aging of Latex and Rubber

Original Periodical: Collection: Stareniye i utomleniye kauchukov i rezin i

povysheniye ikh stoykosti Aging and Fatigue of Latex and Rubber and Improving Their Stability, Leningrad, Goskhim-

izdat, 1955, 3-16

Abstract: Survey

1 of 1

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Kuziminskiy, A.S.

USSR/Chemical Technology. Chemical Troducts and

Their Application -- Crude rubbers, natural and

synthetic. Vulcanized rubber.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9787

: Kuz'minskiy, A. S. and Angert, L. G. Author

Inst : Not given

: The Function of Antioxidants in the Thermal Aging Title

Process of Crude Rubber

Orig Pub: Sb.: Stareniye i utomleniye kauchukov i rezin i

povyshenye ikh stoykosti, Leningrad, Goskhimizdat,

1955, 17-30

The inhibiting action of compounds of the type of Abstract:

the secondary amines, phenyl-\$\theta\$-naphthylamine (I) and its derivatives: \$\mathcal{L}\$-methylphenyl-\$\theta\$-naphthylamine on the oxidation of pure crude rubber and of crude Nabutadiene rubber has been investigated; the protective properties of the antioxidant (AO) have

Card. 1.4

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928110005 USSR/Chemical Technology. Chemical Products and 1-22

Their Application -- Crude rubbers, natural

and synthetic. Vulcanized rubber

Ass Jour: Ref Zhur-Khimiya, No 3, 1957, 9787

Abstract:

been correlated with its molecular structure. The H atom of the amino group appears to be responsible for the inhibiting effect. The interaction between a peroxide radical and a molecule of I proceeds by the cleavage of the N-H bond. The substitution of the H of the amino group leads to the almost complete inhibition of the action of the AO. The protective properties of the amines are based on the mobility of the H of the amino group; this mobility can be enhanced by an intensification of resonance effects in the molecule, e.g., by the introduction of substitutents (OH, OCH3, CH3) in the para-position of the phenyl ring. On the basis of the above discussion the following new AO are proposed: // ,/ -dinaphthylamine-/ , /2 -dinaphthyl-p-phenylenediamine and p-hydroxy-

Card 2/4

USSR/Chemical Technology. Chemical Products and Their Application -- Crude rubber, natural and synthetic. Vulcanized rubber, I-21

Abs. Journal: Referat Zhur - Khimiya, No 2, 1957, 6031

Author: Kuz'minskiy, A. S., Lyubchanskaya, L. I.

Institution: None

Title: Effect of Mechanical Stresses on Oxidative Processes

Original

Publication: Sb. Stareniye i utomleniye kauchukov i rezin i povysheniye ikh stoykosti. L., Goskhimizdat, 1955, 89-99

Abstract: An investigation was made of the consumption of phenyl-beta-naphthylamine during aging of sulfur- (with polysulfide) and of thiouram(with monosulfide linkages) culvanizates in unstressed and stressed
state. Consumption of antioxidant in stressed polysulfide vulcanizate (accelerator DPG) is lower than in an analogous monosulfidic.
Polysulfidic vulcanizates also show (in N₂ medium) an approximately
2 times greater resilience on repeated deformation, than the monosulfidic. Changes in mechanical properties of samples during the

Card 1/2

USSR/Chemical Technology. Chemical Products and Their Application -- Crude rubber, natural and synthetic. Vulcanized rubber, I-21

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6031

Abstract: process of aging (building-up of irreversible deformation on static load) and considerably more rapid diffusion of the polysulfide S, as compared with the monosulfide S (determined by isotope exchange method), indicate greater mobility of polysulfide linkages, which are capable of undergoing rearrangement, of equalizing overstresses and precluding development of disintegration foci. On the other hand the mobility of polysulfide linkages has a detrimental effect in thermal aging under unstressed conditions.

Card 2/2

Kuziminskiy, A.S.

USSR/Chemical Technology. Chemical Products and

Their Application -- Crude rubber, natural and

synthetic. Vulcanized rubber.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9786

Author: Zuyev, Yu. S. and Kuz'minskiy, A. S.

Inst Not given

Title On the Aging of Vulcanized Rubber Under Atmospheric

Conditions

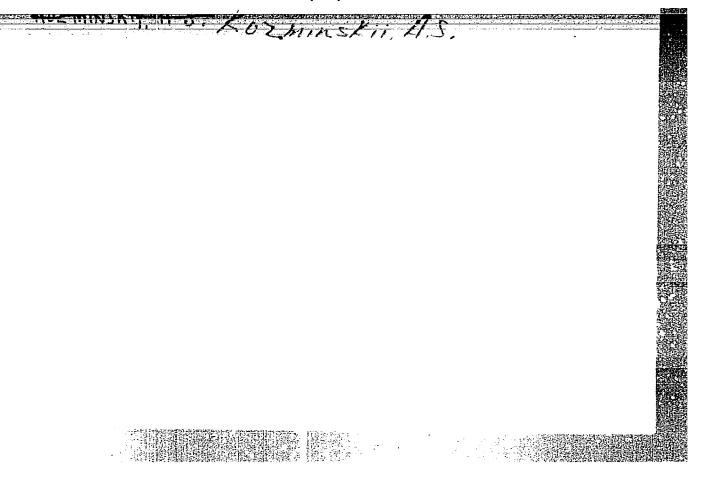
Orig Pub: Sb.: Stareniye i utomleniye kauchukov i rezin i

povyshenye ikh stoykosti, Leningrad, Goskhimizdat,

1955, 157-184

Abstract: See also RZhKhim, 1955, 35967

Card 1/1



AID P - 2286

: USSR/Chemistry Subject

Card 1/1 Pub. 152 - 12/21

Authors Kuz'minskiy, A. S. and Ye. B. Popova

THE PROPERTY OF THE PROPERTY OF THE PARTY OF Title Study of the thermal oxidation of butadiene-nitrile

rubbers

Periodical: Zhur. prikl. khim., 28, no.3, 311-316, 1955

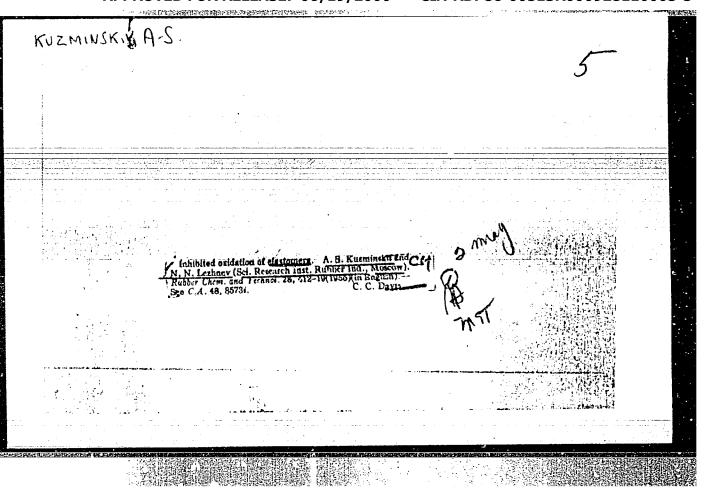
Abstract : Three types of butadiene-nitrile rubbers were studied.

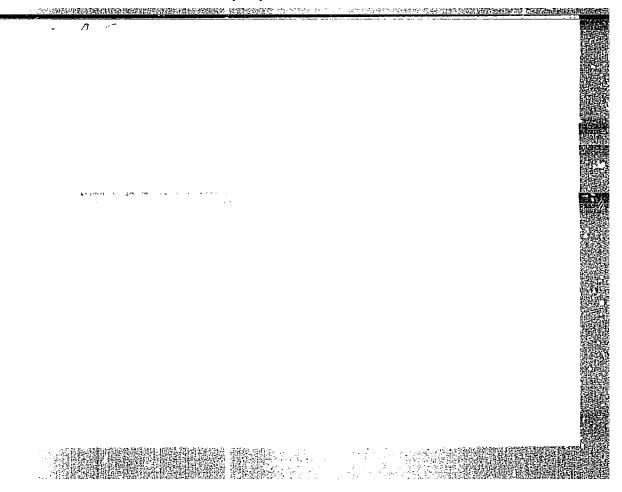
In the process of thermal oxidation, substances are formed in the rubber which inhibit thermal oxidation and aging of the rubber. Ten diagrams, 3 references (all Russian: 1950-1952).

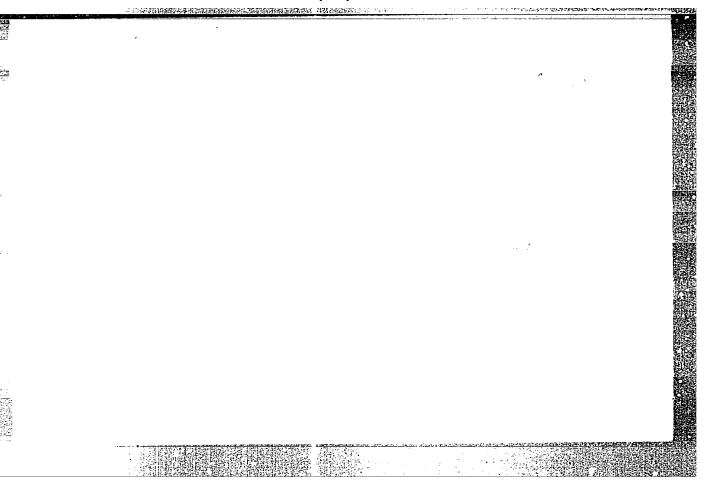
Institution: Scientific Research Institute of the Rubber Industry

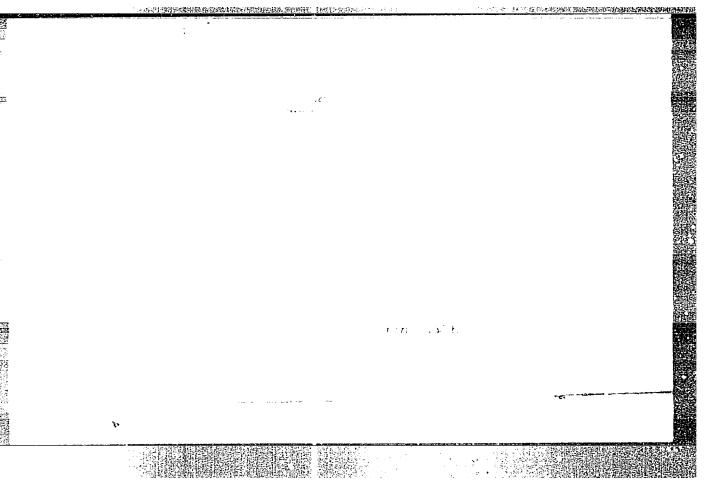
Submitted: J1 28, 1953

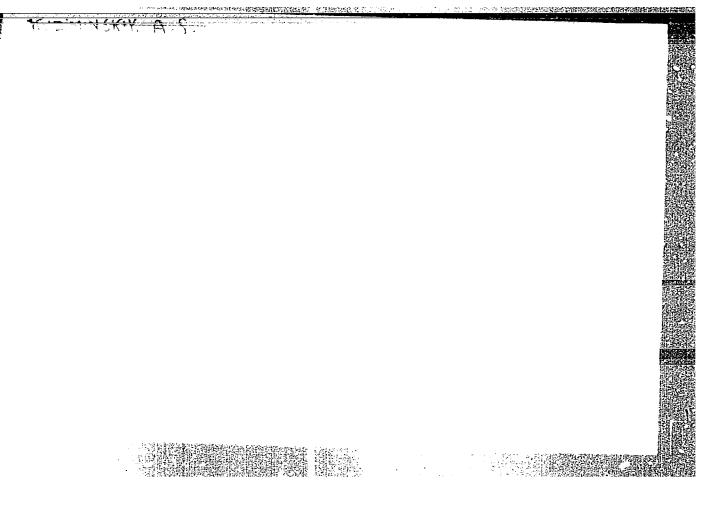
CIA-RDP86-00513R000928110005-5" APPROVED FOR RELEASE: 06/19/2000











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SOV/81-59-9-33443

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 9, p 561 (USSR)

AUTHORS: Degteva, T.G., Belitskaya, R.M., Kuz'minskiy, A.S. (Comm. I);

Degteva, T.O., Kuz minskiy, A.S. (Comm. II)

The Physico-chemical Foundations of the Process of Oxidation Destruction TITLE: of Swollen Vulcanizates. Communication I. On the Conjugated Oxidation of Rubbers and Solvent in Swollen Vulcanizates. Communication II. The

Effect of Inhibitors on the Oxidation Destruction of Swollen Vulcanizates

PERIODICAL: Tr. N.-1. in-ta rezin. prom-sti, 1956, Nr 3, pp 73 - 85, 86 - 101

ABSTRACT:

I. The effect of the solvent (S) on the process of oxidation of a vulcanizate (V) from SKB has been investigated. The kinetics of the oxidation of S and swollen V was examined on an oxidation installation. In the oxidation of S the kinetics of accumulation of stable peroxides in them has been studied. At 150°C S can accelerate, as well as inhibit the oxidation of V. With an increase in decomposition rate of the peroxides formed in the oxidation of S the intensity of the process of

combined oxidation of V and S increases. The oxidation of S and swollen V is a conjugated process. The efficiency of the action of S on the

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69524 SOV/81-59-9-33443

The Physico-chemical Foundations of the Process of Oxidation Destruction of Swollen Vulcanizates. Communication I. On the Conjugated Oxidation of Rubbers and Solvent in Swollen Vulcanizates. Communication II. The Effect of Inhibitors on the Oxidation Destruction of Swollen Vulcanizates.

oxidation of V under similar conditions depends on the rate of formation and decomposition of peroxides of S. II. The behavior of inhibitors (I), as well as of sulfur bonds in the oxidation of swollen V of SKB has been investigated. In the oxidation of V the processes of destruction (D) and structuralization take place simultaneously, in which case D is predominant only in the presence of I. In proportion to the I consumption the structuralization rate can become equal or exceed the D rate. The behavior of oxidation I in swollen and non-swollen V is different due to the appearance of radicals of another reactivity in the conjugated oxidation of rubber and S than in the oxidation of rubber alone. The vulcanization structures can decompose with the separation of sulfur. This decreases the oxidation of V. In the case of heating V without 02 at 150°C only polysulfide bonds are decomposed, the heating of non-swollen V leads to structuralization.

V. Glagolev

Card 2/2

sov/81-59-9-33456

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 9, p 563 (USSR)

AUTHORS: Zuyev, Yu.S., Kuz'minskiy, A.S., Postovskaya, A.F.

TITLE: Some Peculiarities of the Light Aging of Rubbers and Vulcanizates

PERIODICAL: Tr. N.-1. in-ta rezin. prom-sti, 1956, Nr 3, pp 102 - 113

The action of light on rubber differs from the action of a high temperature. In the action of light on vulcanizates the role of the optical properties of ingredients is essential, it is necessary therefore to separate the optical and chemical action of the age resistors for establishing an interconnection between the chemical structure of these substances and their chemical light-protective action. Some age resistors and dyestuffs cause a photosensitization in the vulcanizates. The suppression of the sensitizing action and the manifestation of the efficiency of the sensitizers can be obtained using vigorously light-absorbing ingredients.

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ABSTRACT:

V. Glagolev

